ECTUAL PROPERTY ORGANIZATION International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7: C12N 15/53, A61K 48/00, 31/165, A61P 35/00

(11) International Publication Number: **A3**

WO 00/40271

(43) International Publication Date:

13 July 2000 (13.07.00)

(21) International Application Number:

PCT/GB99/04268

(22) International Filing Date:

30 December 1999 (30.12,99)

(30) Priority Data:

9900009.3 9920837.3

4 January 1999 (04.01.99) GB GB

4 September 1999 (04.09.99)

(71) Applicant (for all designated States except US): ML LABORA-TORIES [GB/GB]; 17 Hanover Square, London W1R 9AJ (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): DAVIES, Donald [GB/GB]; 7 Mychen Close, Beacons Field, Buckinghamshire HP9 2AU (GB).

(74) Agent: HARRISON GODDARD FOOTE; Belmont House, 20 Wood Lane, Leeds LS6 2AE (GB). D

(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN,

YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW,

ML, MR, NE, SN, TD, TG).

Published

With international search report.

(88) Date of publication of the international search report:

2 November 2000 (02.11.00)

(54) Title: P450 / ACETAMINOPHEN GDEPT FOR CANCER TREATMENT

1 m ·D T,

The invention hereindescribed relates to a form of cancer therapy which exploits the cytotoxic properties of acetaminophen when converted to NABQI by the metabolic activity of tumour cell specific P450; vectors for use in the delivery of P450 to tumour cells; and therapeutic compositions comprising said vectors.